



# Iowa Governor's STEM Advisory Council

*dedicated to building a strong STEM education foundation for all Iowans*

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## FREE Workshops – Energy Games

### Project Description:

The FREE Workshop and Energy Games Program provides the motivation and information needed to excite educators and their students about energy. The Next Generation Science Standards identify energy as one of the “crosscutting concepts that unify the study of science and engineering through their common application across fields.” A better understanding of energy can improve national security, promote economic development, lead to sustainable energy use, reduce environmental risks and negative impacts, and help individuals and organizations save money.

### Grade Levels:

Upper Elementary – High School

### Objectives:

- Improved student content knowledge about energy as measured by pre and post tests
- Increased interest in STEM areas and careers as measured by pre and post attitude surveys
- Heightened anticipation and excitement about Energy Games revealed by photos, videos, and comments of student, teachers, and parents
- Increased teacher content knowledge about energy as measured by pre and post tests
- Willingness of teachers who have participated in the project to use the inquiry-based or Design and Problem-Solving Process in their classrooms as recorded by actual examples, surveys, or anecdotal data

### Required Commitments of teacher or school:

Educators will share materials and activities with students

Assist students in participating in TASK sessions and the Energy games events

Participants can register for two graduate credit hours through UNI for Continuing Education for \$150

### Materials Provided:

Workshop

TASK

Energy Games Staff and Materials

Energy Education Outreach Kit: includes materials used during the workshop and Energy Games Event

Each workshop participant will take home materials

### Website to view program:

[www.uni.edu/free-ceee/professional-development](http://www.uni.edu/free-ceee/professional-development)

[www.iaenergyed.info](http://www.iaenergyed.info)